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Wilkinson, Davida

From:

Manchester, Howie

Sent:

August-29-18 5:13 PM

To:

Waddington, Zac

Subject:

Tofino Mort Events - August 2018

Follow Up Flag:

Follow up

Flag Status:

Completed

Hi Zac.

As we discussed, we discovered four unreported over threshold mort events during our Rant Point audit, these are as follows:

July 18, 18 - 2, 146 morts with a total biomass of 11 063 Kg during a one day mort retrieval July 26, 18 - 978 morts with a total biomass of 5159 Kg during a one day mort retrieval. August 6 - 10 - 1980 morts with a total biomass of 10380 Kg during a 5 day mort retrieval. August 17, 18 – 771 morts with a total biomass of 4123 Kg during a 1 day mort retrieval.

This site runs uplifts daily and daily mortality with uplifts are around 200 / day, due to the size of the fish (5.4 Kg) the uplifts are inefficient, during dives the clean out has put the biomass over the reporting threshold on the above dates. The site has classified most of the unreported mort events as and low level harmful plankton) as well as some non 'Old', environmental (performers.

Note that this site did report a mort event in June due to harmful algae but this event was resolved.

On further discussion with Michelle apparently they discovered an un reported mort event at Bedwell as well today. This occurred on July 13, the mort count was 6788 @ 1.107 Kg to give a one day event of 7514 kg. Again this was due to inefficient uplifts followed by a mortality retrieval using divers. This was a clean out after hydrogen peroxide treatment in early July.

Let me know if you have any questions.

Thanks

Howie

s.16(2)(c)

s.20(1)(b)

Howie Manchester BSc

Senior Aquatic Science Biologist

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Fax: 250 703 0921



Pêches et Océans Canada



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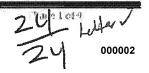
Health & Mortality Management Plan (HMP) Inspection

(with reference to requirements of HMP and Conditions of Licence)

NB. Section 15.1: "Unless otherwise noted under specific conditions of this licence, the licence holder shall keep all records required by these conditions—at this facility for the duration of the production cycle"

	Upera	ation Descrip	tion and inform	ation Reported to DI	
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Paperwork p	repared on:	Aug 20/18	Pape	" rwork prep. last updated on: _	
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Note: If this facility has had a previous inspection for this cycle of fish, complete the sections of the checklist highlighted in grey (depending on whether a sea lice audit was conducted this visit), those sections where a deficiency from a previous visit was indicated, and anything not previously assessed.





Fisheries and Oceans Canada Pêches et Océans Canada

Canada

*Please don't forget to write the inspection date and time on the first page

IMP inspection conducted by DFO staff: dditional activities on this inspection date; Fish Health Sea Lice Other: Current: Fish Inventory;	ies are "NO". on it (las NO NO NO NO	
Additional activities on this inspection date: Fish Health Sea Lice Other: Current: Fish Inventory:	ies are "NO". on it (las NO NO NO NO NO NO NO NO	st page). NA□ Not Observed□
At a minimum, items highlighted in grey are assessed on each site visit. If the item assessed is deemed inadequate by DFO staff while onsite, the deficience Comments regarding the nature of the deficiency are required for any item marked Recommendations made to site staff are recorded in the comments section. This document is not considered finalized until the Field Supervisor has signed off Biosecurity (s.4.1, App IV; HMP s.2) 1.1 Is a functional footbath present at all arrival locations? YESIV 1.2 Type of disinfectant used in bath: Virkoniv Bleach Ovadine Pucks Other 1.3 Is there a footbath at other critical traffic points on-site (i.e. ramps)? 1.4 While on-site, was the footbath used by site staff? 1.5 Is there evidence; other than footbaths, of minimizing potential pathogen transfer (i.e. sanitizers, sprayers, net dips, other)? 1.6 Are footbaths and disinfection liquid(s) disposed of in mort totes? Visitor protocol (s.12.1 & 2; s.4.1; App IV; HMP s.2.5): 1.7 Are there signs directing visitors to a well-marked moorage areas / dock? 1.8 Are there signs indicating restricted moorage areas? (E.g. at mort float) 1.9 Are visitor protocols posted or explained at designated docking stations? 1.10 Are biosecurity procedures communicated? Feed, Nutrition & Medication (s.4.1, App IV; HMP s.2.2.5 & s.2.10.1) 2.1 Is feed stored in a contained, protected location (not in weather elements)? YESIV 2.2 Are feeds on site within 'best before' date? (6mo, from production date) 2.3 Is feed, observed as being fed to fish, free of visible mould or contaminants? For medicated feed on-site (s.4.1; s.5.1b; App V-D; HMP s.2.10.2): 2.4 Is it recorded in the Rx file on-site? 2.5 Is medicated feed stored in clearly marked bags, easily distinguishable from non-medicated feed? Monitoring Water Quality (s.4.1, App IV; s.5.1a; App V-C; HMP s.2.4)	ies are "NO". on it (las NO NO NO NO NO NO NO NO	st page). NA□ Not Observed□
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2.4 Is it recorded in the Rx file on-site? 2.5 Is medicated feed stored in clearly marked bags, easily distinguishable from non-medicated feed? **Monitoring Water Quality* (s.4.1, App IV; s.5.1a; App V-C; HMP s.2.4)	· · · · · · ·	To the second second
distinguishable from non-medicated feed? Wes Wonitoring Water Quality (s.4.1, App IV; s.5.1a; App V-C; HMP s.2.4)	NO	NA□
. Monitoring Water Quality (s.4.1, App IV; s.5.1a; App V-C; HMP s.2.4)		
. Monitoring Water Quality (s.4.1, App IV; s.5.1a; App V-C; HMP s.2.4)	NO	NA
en de de de de la company de la compa		
3.1 Are microscopes and other plankton monitoring equipment available? YES	NO	NA□:
3.2 Is equipment available for measuring water quality? YES	NO	NA 🗆 :
3.3 Is equipment on-site to respond to blooms or low D.O. (e.g. tarps,		
bubble curtain, air compressors, etc.)?	NO	NA 🗆 :
3.4 Are records of water quality on-site? YES□	S. O. other Specimens, and	NA[:
3.4.1 If yes, are they up-to-date?	NO	NA
3.4.2 If yes, is there evidence of increased monitoring during poor	NO∏ NO∏	
water quality events (e.g. plankton bloom or low oxygen)? YES		NA

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4. Fish Health - Carcass Retrieval Protocols (s.4.1, App IV; s.4.3; s.4.4a; s.7.5, App VII; s	9.2: s.9.3: H	MP s.2.6)	
If carcass retrieval occurred during this assessment: Check this box if DFO was not present to observe the carcass collection 1.1 If divers, are they following basic HMP biosecurity protocols? 2.2 Does staff wear raingear, gloves and rubber boots during collection? 3.3 Is any equipment & material, that may act as a potential source of contamination, disinfer between pens and/or is there an adequate barrier to transmission of potential pathogens 4.4 Is there evidence of designated carcass containers? 4.5 Are the carcasses properly covered & contained to facilitate biosecurity? 4.6 If dead wild finfish exist in the collection, are they documented & properly disposed? Observed Discussed 4.7 If any live wild finfish are caught during carcass collection, are they released outside the aquageture facility immediately and in the least harmful manner?	YES VES VES VES VES VES	NO NO NO NO NO NO NO NO	
☑ Observed ☑Discussed	and the second second		
From records/observation: (s.4.1, App IV; s.4.4a; HMP s.2.6.2) 4.9 Are staff categorizing carcasses and are the category designations acceptable? 4.10 Is carcass collection performed by a known and effective method? 4.11 Method(s) used: Diverside, Pump[ii]; Bottom rings[iii]; Other; 4.12 Is there a routine schedule for carcass collection from pens? 4.13 Is the frequency of mortality retrieval adequate? Some characteristics of an adequate frequency of collection include: minimizing predator attrispread of pathogens; and facilitating the early detection of disease. 4.14 Is the mort storage location secure and does it meet biosecurity principles?	YES YES	NO N	Sec Cerrosi ihe potential
4.15 Type of mort storage? Mort Float []; Ensilage []; other []	, colu	NOL	IVA LI
5. Fish Health Husbandry Records (s.2.1, App II, s.2.2, App III; s.2.3; s.2.4; s.4.1, App IV; s.4.3; s.7.4 App V-B; App IV; s.15.1; HMP; s.1.1.3, 2.5.3, & s.2.7) Do written or computer records address: 5.1 Mortality number or rate? 5.2 Carcass classifications? 5.3 Sampling events (if any)? 5.4 Is this a single year class production unit? If NO or NA, list mitigative actions to minimize this risk; 5.5 Is this a single species production unit?	YES YES YES	NO NO NO	NA NA NA NA NA NA NA NA
5.6 Is the licence onsite, current and valid (i.e. not superseded)?	YES	NO	NA 🗆
 5.6.1 Are all species being cultured onsite listed on the licence (s.2.1)? 5.7 Is there written confirmation of in/out fish transfers? 5.7.1 For transfers within zone, are health attestation(s) attached? (s.2.1d; s.2.2; s.2.3) 5.7.2 Are ITC licences available from the previous facility? (s.2.4; HMP 2.5.3) 5.7.3 For transfers across zone, DFO reviewed between zone FH inspection reports (i.e. PC 5.7.4 Are treatment records from the previous facility accessible encompassing 90 days (therapeutants), 21 days (anaesthetics) prior to the 1st transfer date to the current facility 	R lab resu YES□	NO	NA NA NA NA NA NA NA NA
5.8 Prescription records are current (eg. TMS, antibiotics, SLICE)?	YES	NO□	NA 🗆
5.8.1 Is daily administration of med feed recorded (i.e. pens & amounts)?	YES□	NO	NA 🔲
 5.9 Other types of mitigative actions logged (i.e. net changes, split fish, etc.)? 5.10 Are carcass evaluations, sampling by fish health staff and corresponding dates recorded? (s.5.1; App V-C) 5.11 Indications that fish health and mortality records can be, or are reviewed by the company velocitations or fish health staff? (s.5.2, App V-C) 	YES T	NO O	NA In town
by the company veterinarians or fish health staff? (s.5.2; App V-C; s.15.1) 5.12 Are there training records indicating all facility staff have read and abide	YES YES	NO	NA In town
by the HMP and relevant SOPs? (App IV; HMP s.1.1.3) Name of record checked: 5.13 Are relevant and current SOPs of the HMP on-site? Score From Total Page 3 Totals:	YES	Date: NO	



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6. SEA LICE

If Pacific salmon: Do records indicate quarterly sea lice monitoring and document lice abundance? (s.6.6)	YES	NO	NAE
If Atlantics: (Atlantics, s.4.1; s.6; App.VI) Sea lice sampling occurred during this inspection?	(go to seci	tion 6.8)	. NACI
SL Handling Procedures (s.4.1, App IV; s.6.3; App VI; s.9.1; HMP 2.6.3.1 & 2.6.3.2)	TO Provide the Section of the Sectio	deposit of T. C. S.	
If lice counts occurred during this HMP assessment: 6.1 Are staff following fish-gathering protocols (i.e. Crowding first then random selection)? 6.2 Method of capture was: Large seine Box seine Shallowed net Chum/dip O 6.3 Are staff using anaesthetic properly (i.e. able to handle fish in 1 - 2 minutes)? 6.4 Are fish adequately contained (catch nets, low stress, and adequate tote size)? 6.5 Are staff handling fish to ensure accurate lice enumeration? 6.6 Are staff categorizing the lice into required life-stages and species?	YES Y YES Y YES Y YES Y YES Y	∕NO.	NA D NA D NA D NA D NA D NA D NA D
From records: [s6.4; s6.5; s.7.1, App.VI-A; s.15.1a(i)] 6.8 Do counts, last reported by farm to DFO, agree with facility records? 6.8.1 Is the SW entry date, in the above record (last reported SL, App.VI-A) reported correctly (i.e. is a direct entry date from the hatchery to SW)? 6.9 If an average of >3 motiles/fish has been experienced by this farm in	YES YES	NO O	NA D
the past 3 months, has monitoring increased to at least biweekly? Do sea lice records address: (s.4.1, App IV; s.6.3-6.5, App VI; HMP 2.6.3.2) 6.10 All sea lice assessment dates and count results? Last date: 6.11 Three groups of 20 fish within a monthly, or semi-monthly, assessment? 6.12 Is there a designated reference population identified in records?' 6.13 Is that reference population known and sampled by staff each count?	YES YES YES YES YES YES	NO NO NO NO	New Entry New Entry New Entry New Entry New Entry New Entry
7. Fish Handling, Euthanasia, Welfare (s.4.1, App IV; s.4.4b, App V-A; s.4.5, App V-B; s.15.1 7.1 If major culls/euthanasia events occurred, have they been recorded? 7.1.1 Do the records indicate the method of euthanasia or anaesthesia?	HMP s.2.3, YES YES	s.2.6.3.4) NO NO	NA 🗌 NA 🔲
 8. Disease Outbreak / Kill Contingency Plan (s.4.1, App IV; s.4.4b, App V-A; s.4.5, App V 8.1 Is the contact list for the fish health expertise/ team readily available? 8.2 Is the Manager/staff aware of company procedures to deal with suspected fish disease outbreaks or disease emergencies? 	-8; s.15.1; HM YES [V YES[]	MP s.2.8) NO□ NO□	
8.3 The manager (or senior staff onsite) is aware of, or can locate onsite, the definition of a mortality event (notification threshold) and the company procedures to deal with the event?	YES S		
Did action or inaction by the licence holder result in: • Forfeit or postponement of the sampling or audit event; and/or • Potentially diminish the integrity of the sample data or audit intent? Explain:	d, replace	d or ea	ncelled? [
Score From Total	Name of the Control o	200MVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV	Australian de la Australia en entre en complete en equiparque en entre en entre en entre en entre en entre en



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The on-site inspection conducted on this day is not intended to be inclusive of all licence conditions. Any "I items identified and noted below by DFO staff may be considered deficient, inadequate or items of concern

1 2 3 TOTALS de line items assessed as "N Comments: Previous deficiencies or r	nspection iter pplicable (NA) Score	From Total From Total Company of the state	is subtracted by DFO staff	from the m	aximum tota	I (eg. 67 – 14	NA's = 53).	
Page S TOTALS S In ine items assessed as "N Comments: Previous deficiencies or r	Poplicable (NA) Score G G G NO" (i.e. deficie	From Total From Total Company of the state	is subtracted by DFO staff	from the m	inspection or	n this day wen	NA's = 53).	
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DFO staff observations concerning other COLs or the Fisheries Act may require C&P a	ttention. YES	NO
HMP Photos taken? YES By whom:		NOL
Photo Details Name [format: Facility Reference # - FHAS Code - Fish (if applicable) & sequence (a, b, c).jpg] and Details Example: 1082-2014-007-1a ipg Description: Necropsy Fish #1 Photo 1: Description: Des	escription	· · · · · ·
Print name: Date:	DOF	716
To be completed by Fisheries and Oceans (DFO): Date reviewed by Field Supervisor: Sept 4/18 Signature: 1-100 Print Name: 1-1000 Print Name: 1-1000		
If photos taken, they have been titled, dated & filed according to Facility Reference #? YES NO] NA	
C&P staff was contacted to follow-up concerns noted during this audit. YES Date: NO] NA	
A scanned copy of the finalized HMP was uploaded to AQUIIS: A letter was sent to the licence holder regarding this site visit: The Licence Holder's Fish Health Rep was subsequently contacted by DFO: YES NO		HARECORPHISTS CONTRACTOR TO THE PROPERTY OF TH
DFO Veterinarian signature: Date:		TO COLUMN Y PROPERTY OF THE PERSON NAMED AND PERSON NAMED
Print name:		
Additional Veterinary comments:		

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Canada		Canada		Canada	
ortality Eve	ents (ME):		Date	Last Assessed:	May 30/18
		prior to audit date (Check completed: Y	ZES□ NO□
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oate ME reported DD-MM-YY)	06	-Lu-18			Beldestern and several leaders. The several leaders are several leaders.
atest ME Follow-uj ate (DD-MM-YY)	9 18	-Jun-19			A Comment of the Comm
ause (List all)	Abae	Bloom (Hetero)			
Petails confirmed Insite (Y/N) any ME reported					
	Fish Health sta		g the time of the event?	YES□	YES☐ NO☐ NO☐ N/A☐ shoids.
current average	24 hrs:	4000kg / Avg. fi	sh weight (kg)*	<u> </u>	fish
velght	5 days:	10,000kg / Avg.	fish weight (kg)*		fish
Percentage of sish	24 hrs:	0.02 x inventory	, **	.	fish
* inventory at reginning of 60 lays	<u>5 days:</u>	0.05 x inventory			fish
) Additional M	ortalit y Eveni	ts noted: Y	ESI NO	N.	so Aust
Date (DD-MM-YY)	JU\u	- 19/18	July 26/18	Dx6-	so Alg 17/ 10/10
ause (check site ecords)	HETCO ENV +		ENV + old Coive		
Office Use Only pt'd to DFO (Y/N)	as legation	N	N	N	
f suspect ME colle id the company's ther onsite inform O, Plankton inforr	is/are indicated nort information ect weight by period Fish Health state ation collected mation, etc)?	on <u>both</u> sides of the en and inventory for ff visit the site durin that may indicate ca	e ME date range. specific date(s) at potential M g the time of the event? ause of ME (environmental co	Collected: YE E.) YE nditions,	
्य	Errange Soft	A ENVIRO	DATA I NO EN	we to ine	ticery
ffice Use Only FO Veterinaria onfirmed un	in informed o	The state of the s			SM NA I



Fisheries and Oceans Canada Pêches et Océans Canada

Canada"

Fish Health Events (FHE):

Date Last Assessed: Mcy 30/18
*only assess FHE back to this date

Vet diagnosis at this Vet Diagnosis details	•	V-B):				•	res□ Nod
Incident Date (DD-MM-YY)				14.74 T			
Reported Date (DD-MM-YY)				option and the contract of the			
Latest Rpt of Ongoing FHE (DD:MM-YY)			= 250 c 5 c 1 c 2 c 2 c 2 c 2 c 2 c 2 c 2 c 2 c 2			WP-see	
Cause							
Incident Date noted on site (Y/N)						ing the constant of the consta	eta antika eta eta eta eta eta eta eta eta eta et
Previous Notable FHE	- Marthrod	June 20	5- Aug 2 Sep 2017	017	- SRS	०८५ २०।	7
Comments	<u>_</u>		F105 932	(C011)\		40000000000000000000000000000000000000	
Vet diagnosis at previo	ous marine fac	cuity"? (App \	/-B): (Limit to	90d from 1	" day of tra		YES□ NO□ N/A Hatchery ☑
SOURCE !						÷	
CAUSE							77.
DATE (DO-MM-YY)		A Company to					
Reported Therapeutar	nt Use (s.4.5d;	s.5.1b; 7.4;	ADD V-B, C &	Dì:	Last Quarte	data availa	ble? AL 2019
Date (MM-YY)		An one transplant			100		
Therapeutant							
Cause			A _{listan} and				
Confirmed on site (Y/N)				The second se		nii toi ta ja	,
Additional Therapeut	tant Use note	ed at audit n	ot indicated a	above (s.4.5	d; s.5.1b; 7.4; A	pp V-B, C & D	: YES□ NO
Date (DD-MM-YY)							
Therapeutant							
Cause		Mary polytical and another control of the control o					
For Office Use Rpt'd to DFO (Y/N). If yes, date.							
* collect any relevant docui	nentation for unr	eported use list	ed above that ma	y support the	FHE (le. cop	of treatmen	t log, Rx etc)
Comments: No	Pocen	J. 91:	~ S	no recommendant con Carlo	0.7	dere	
na annanannonnumanin radularin sa kesawata sari 30,000 s	- Yhis	Site	Pian	1er 12	1202	350ppel	. 4
Office Use Only DFO Veterinarian informed	of potential FHE	money of the state			YE	SO NAD	

v. Mar 20, 2018. This template is subject to change without notification and, once intermation has been entered, this document is considered protected intermation.

Confirmed - unreported FHE occurred

s.20(1)(b)

V. 190 1 113 14



TOTAL:

Pêches et Océans Canada

Canada

Sea Lice (SL) Treatment Information and Above Threshold:

		b					· .
erage	e Lice Al	oundance f	rom Submitte	ed Reports (s	17.1, App. VI-A):	Requires ass	essment YES[
		•				Date Passed	Assessment:2
ass		available. D			printout of the pens:		
Any	dates w	here ">3 trig	ger" was reac	ched in past 3	months?		
YES	SIM Date	: 30-1	May - 18	NO	9.79 M	-oliles	one? Pla
,	- 6	***************************************		an	L .	C .).	ald con
		**			LIZOL	400	am do , dome nº ()
ea L	ice Calcul	ator					
idex	Pen#	Female:	Female Gravid:	Male:	Immature:	Chalimus:	Caligus:
	арин такжа так						000000 D
iliziliis Dannani							
		·					
	<u>, I, , , , , , , , , , , , , , , , , , </u>		· ·				
Sub to	otals:						
iub to	otals:					8	
Sub to	otais:	FE	MALE	NON	FEMALE	· y/	

MOTILE

^{*} Note: if the on site SL does not match the reported SL for the given dates, please retain a copy of the on site records for the given date and pens.

		W.AND.			
	Mortality	Mortality	Mortality	Mortality	
	biomass [kg]	biomass	count	rate [%]	<i>;</i>
		rate (%)			
Date: 28/06/2018	877,	0.04	174	0.04	
Date: 29/06/2018	2,482	0.12	514	0.12	- 01d+2N120 + NP
Date: 30/06/2018	456	0.02	98	0.02	
Date: 01/07/2018	661	0.03	136	0.03	
Date: 02/07/2018	701	0.03	141	0.03	
Date: 03/07/2018	878	0.04	176	0.04	
Date: 04/07/2018	790	0.04	160	0.04	
Date: 05/07/2018	662	0.03	128		
Date: 06/07/2018	721	0.03	142	0.03	
Date: 07/07/2018	1,566	0.07	313	0.07	
Date: 08/07/2018	1,245	0.06	247	0.06	3
Date: 09/07/2018	3,064	0.14	⅓ 608	0.14	- DIVE (OID + ENV + NP.
Date: 10/07/2018		0.00	Ó	0.00	10018019101
Date: 11/07/2018	1,797	0.08	351	80.0	
Date: 12/07/2018	696	0.03	1,38	0.03	
Date: 13/07/2018	1,674	0.08	325	0.08	
Date: 14/07/2018	1,271	0.06	247	0.06	a-
Date: 15/07/2018	1,873	0.09	370	0.09	٠.
Date: 16/07/2018	1,710	0.08	341	0.08	
Date: 17/07/2018	1,915	0.09	. 375	0.09	
Date: 18/07/2018	11,063	0.52	x 2,146	0.51	- me (Dive) (old, NP; Envie
Date: 19/07/2018	834	0.04	161	0.04	CII NO ENVIR
Date: 20/07/2018	1,516	0.07	290	0.07	(ola) of
Date: 21/07/2018	1,488	0.07	282		•
Date: 22/07/2018	806	0.04	152	0.04	
Date: 23/07/2018	. 883	0.04	170	• 0.04	
Date: 24/07/2018	924	0.04	179	0.04	
Date: 25/07/2018	1,180		223	0.05	
Date: 26/07/2018				0,23	- me (Divc)
Date: 27/07/2018	463	0.02	89	0.02	('0.
Date: 28/07/2018	889		169	0:04	- me (DIUC)
Date: 29/07/2018	757	0.03	143		10.01
Date: 30/07/2018	1,378	0.06	257	0.06	
Date: 31/07/2018	1,746	80.0	320	0.08	
Date: 01/08/2018	1,561		298	0.07	
Date: 02/08/2018	2,405	0.12	451	0.12	
Date: 03/08/2018	565	Colombia Col	110		
Date: 04/08/2018	1,302	0.07	243	0.07	
Date: 05/08/2018	724	The second secon	138	0.04	ont.
Date: 06/08/2018	3,572	0.19	¥ 689	0.19	(+ (*)
Date: 07/08/2018	1,397	0.08	269	0.08	I mE (Drie + HORNEST)
Date: 08/08/2018	1,309	0.07	249	0.07	
Date: 09/08/2018	1,128	A STATE OF THE STA	207	0,06	Dive
Date: 10/08/2018	2,973	0.17	<i>≱</i> 566	0.17	ט

4 need to continu Die orp

	90,847	4:39	17,392	4:06
Date: 28/08/2018	2,036		357	0.11
Date: 27/08/2018	838	0.05	151	0.05
Date: 26/08/2018	1,255	0.07	225	0.07
Date: 25/08/2018	1,303	0.07	234	0.07
Date: 24/08/2018	763	0.04	138	0.04
Date: 23/08/2018	796	0.04	145	0.04
Date: 22/08/2018	643	0.04	118	
Date: 21/08/2018	796	0.04	146	
Date: 20/08/2018	713	0.04	128	
Date: 19/08/2018				<u> </u>
Date: 18/08/2018	810	0.04	152	0.0
Date: 17/08/2018			从 771	
Date: 16/08/2018	1,094	0.06	202	0.06
Date: 15/08/2018	870	0.05	167	0:05
Date: 14/08/2018	947	0.05	179	
Date: 13/08/2018	1,098	0.06		0,06
Date: 12/08/2018	517	0.03	97	0.03
Date: 11/08/2018	346	0.02	64	0.02

-ME(Drue - EWV + old)
- Hetero signabouen land

ENV- Fich showing shortered lamellae are considered enviro.

most Events - Un reported appear to be

drue to uplifts not voucing adequately

i threshold is reached at most Dive

most one dossified as drue to

Environment (+ Low Level

Manyel Plankton) + Old i NPs.

s.20(1)(b)

Issue Date Comment	Mortality count: 2146; biomass: 11063 (card environmental) - the unreported even working adequately due to the size of the ME threshold is reached. Environmental along with low level harmful. 18-Jul-18 In addition to the July 18 event, there were discovered during this audit: - July 26, 2018 number: 978 biomass: 51 - August 6 - 10 number: 1980 biomass: 11 - August 17 number: 771 biomass: 41
Issue	29-Aug Unreported ME
Audit Date Iss	29-Aug Ur
ţ.	ent Point

Documents of Exhausting Under 10th systems to before the expense to the Exhausting the Exhausting the Exhausting Commission of the E

Best available copy

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NOTIFICATION REPORT - PHONE LOG FORM

NOTE: A phone notification does not preclude the requirement of a written notification by the licencee.

Type of Notification: Mortality Event	Fish Health Event								
Date of Call: Podt - AUL 29 time of Call:	The Part of the Pa								
Licence Holder Name:Cerma	ag Conada								
Facility Name: Rant Ot Facility Ref. #:_	526 Fish Health Zone: 2-3 Fish Type: Atlantic								
Date of Incident/Initiation of Treatment:	12 18 Time of Incident:								
. (rent Inventory #: Avg. Wt.:								
Production Category. The Category Con	Avg. Wt								
MO	DRTALITY EVENT								
Description of Incident:	Reported ME - 4 TOTAL								
Suspected # of Carcasses: Suspecte	ed % Affected: Suspected Carcass Biomass:								
2146	11063 Kg								
Probable Cause or Diagnosis: See attached - Note 3 other Me's									
Action Taken:	CLTINCHE DEAR TOUTE DE STROKE ME								
Nort Co	West 5								
Mort co	Direction								
FISH	HEALTH EVENT								
Veterinary Diagnosis:	Occurrence Category:								
Mitigation:	Length of Treatment:								
Comments/Details:									
FOLLOW-UP									
Official e-mail received: Yes No Date of e-mail:									
DFO Veterinary Follow-up required: Yes 🖼 N	Io D N/A D								
Date DFO Veterinary Follow-up completed:									
Follow-up Comments:									

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Wilkinson, Davida

From: Waddington, Zac

Sent: September-12-18 1:18 PM

To:

Cc: AQFF.FishHealth (DFO/MPO)
Subject: Non-compliance at Rant

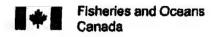
Attachments: Cermaq ME non-reporting Sept. 12, 2018.pdf

During an audit of the Rant Point facility conducted by DFO on August 29th, it was discovered that Cermaq had failed to identify, and therefore report, a mortality event a subsequent mortality which should have triggered 10-day follow up reports. Please see the attached non-compliance letter outlining the details and required follow-up actions by Cermaq.

During an audit of the Bedwell facility on August 29th, 2018 it was noted that the mortality count on July 13th, 2018 exceeded the threshold for reporting in the COL. There was apparent issues with ineffective uplifts and therefore mortality counts over the 10 days prior. Nonetheless, the one day trigger was met and should have been reported with the mitigating circumstances articulated. I would ask that you do so within the next week, and provided you can demonstrate that neither the one day or five day mortality trigger was violated, then the event will not be recorded in our records as a mortality event.

Thanks very much for your cooperation,

Dr. Zac Waddington DVM, B.Env.Sc.(Hons)
Lead Veterinarian - Pacific Region
Fisheries and Oceans Canada | Pêches et Océans Canada
Aquaculture Environmental Operations - Fish Health
Courtenay, British Columbia
Telephone | Téléphone: 250-703-0902
Fax | Télécopieur: 250-703-0921
Zac.Waddington@dfo-mpo.gc.ca



Pêches et Océans Canada

Pacific Region - Fish Health Unit 103 - 2435 Mansfield Drive Courtenay, British Columbia V9N 2M2 Région du Pacifique - Santé de poisson 103 - 2435 Drive Mansfield Courtenay (C.-B.) V9N 2M2

September 12, 2018

Cermaq Canada 203-919 Island Highway Campbell River, BC V9W 2C2

Dear Licence Holder,

Subject: Non-compliance regarding licence condition AQFF115210

Section 4 of the Pacific Aquaculture Regulations states; "For the proper control of fisheries and the conservation and protection of fish, the Minister may specify, in addition to the matters set out in subsection 22(1) of the Fishery General Regulations, conditions in an aquaculture licence".

This letter is to inform you that Fisheries and Oceans Canada (DFO) has conducted a review of your Condition of Licence (COL) 4.4(b) which states:

a mortality event procedure, which will include:
(i) notification to the Department of a mortality event defined in Part A "Mortality Event" not later than 24 hours after discovery, providing as much detail as outlined in Appendix V-A;

We have determined that you have failed to comply in the following manner:

 The detection of the "mortality event" (as defined in Part A. Definitions of the licence) did not occur, and resultantly there was a failure to notify the department within the required timeframe.

The mortality event in question occurred at the Rant Point facility, beginning on July 18th, with ongoing mortalities which warranted subsequent 10 day mortality event notifications for approximately 4 weeks.

The Department requires that you:

 Submit completed reports (including an initial mortality event and subsequent 10 days reports) within one week of receiving this letter.

This occurrence of non-compliance is being recorded and will form your compliance history and will be considered in response to future occurrences of



non-compliance. You should be aware that Section 78.1 of the Fisheries Act states "Where any contravention of this Act or the regulations is committed or continued on more than one day, it constitutes a separate offence for each day on which the contravention is committed or continued". This letter does not preclude any legal action this Department may take with respect to this matter.

DFO is committed to working with you to resolve this issue. Please feel free to contact Zac Waddington (<u>Zac.Waddington@dfo-mpo.gc.ca</u>) if you have any questions or concerns regarding this matter at 250-703-0902. All reports are to be sent to the following E-Mail address: Marine.Finfish.Aquaculture@dfo-mpo.gc.ca.

Sincerely,

Dr. Zac Waddington DVM, B.Env.Sc.(Hons)

Lead Veterinarian - Pacific Region
Fisheries and Oceans Canada | Pêches et Océans Canada
Aquaculture Environmental Operations - Fish Health
Courtenay, British Columbia
Telephone | Téléphone: 250-703-0902
Fax | Télécopieur: 250-703-0921

Zac.Waddington@dfo-mpo.gc.ca

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Wilkinson, Davida

From:

Sent:

September-20-18 4:38 PM

To: Cc: AQFF.FishHealth (DFO/MPO)

Subject:

RantPoint Farm

*Confidential: Fw: COL4.4b - Cermag Ref # 526 Summary Report

Attachments:

2018-07-18 COL 4.4b - Rant Ref# 526.xlsx

Categories:

Purple Category, Green Category

Hello,

Please find attached our summary report related to the mortality event that commenced on July 18th.

Thanks

CERMAQ

Phone +1 250-286-0022 Direct +1 250-286-0022 ext.

Mobile

Cermaq Canada Ltd. #203-919 Island Highway V9W 2C2 Campbell River, BC, Canada

Cermaq.ca

<u>Facebook</u>

<u>Twitter</u>

---- Forwarded by

/Ca/Mainstream/Cermaq on 20/09/2018 04:30 PM ----

From: To: /Ca/Mainstream/Cermag

Cc:

AQFF.FishHealth@dfo-mpo.gc.ca

Farm/

Date: Subject: 20/09/2018 04:30 PM *Confidential: COL4.4b - Cermag Ref # 526

Hello

This is notification that a mortality event was triggered at our Rant Point Facility on July 18th as a result of harmful Algae.

We have removed 11,063kg of fish (2146pcs). A follow up report will be submitted with the complete numbers.

Thanks

s.16(2)(c)

RantPoint

s.19(1)

s.20(1)(b)

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APPENDIX V-A:

Fisheries and Péches et Océans Oceans Canada URGENT NOTIFICATION (& FOLLOW-UP REPORTS) OF MORTALITY EVENTS

Canada

Rant Point Atlantic Production 2,146 0,51%	Discovery date of event mm/dd/yyyy	Fish Health zone	Facility Reference		Facility name	Fish type cultured	Fish production category	Suspe fish dea	Suspected proportion affected (%)	Suspected carcass biomass (kg)	Event type	Probable cause or diagnosis	Action taken	Information Relevant to Eve algae, environmentals, con
1971 1974	07/18/2018	2-3	526	Cermaq Canada	Rant Point	Atlantic	Production	2,146	0.51%	11,063	Mortality Event	Algae bloom	Ongoing manitoring	Heterosigma, Bloom mitigati
1970 1970	07/19/2018							161	0.04%	834			Ongoing monitoring	
1972 1972	07/20/2018	***************************************					***************************************	290	0.07%	1,516			Ongoing monitoring	
1,12,0.00 1,12	07/21/2018					***************************************		282	0.07%	1,488			Ongoing monitoring	
1,100 1,10	07/22/2018	***************************************				***************************************		152	0.04%	806			Ongoing manitoring	
1,132 1,132 1,133 1,134 1,135 1,13	07/23/2018	•				***************************************		170	0.04%	883			Ongoing monitoring	***************************************
2009 20	01/24/2018	***************************************				***************************************		8/1	0.05%	824	***************************************	***************************************	Ongoing monitoring	
160 160	07/25/2018							623	0.23%	1,180	Administration Court	Alone blace	Ongoing monitoring	Sect Occurred Asset
1.62 0.05% 1.75% 0.05% 1.75% 0.05%	07/02/00/10					***************************************		202	0.02.70	0,138	Ministrality Catalil	Algae Dioon	Organia monitoring	righ Counts of Ast
1,22,10.00000000000000000000000000000000	07/20/2010	***************************************				-		180	0.04%	200	***************************************		Ongoing maniformy	***************************************
1,250 1,25	07/20/2018	***************************************						143	0.00.0	747	***************************************	***************************************	Occiona monitorio	***************************************
1,146 0,000 0,00	07/30/2018							257	0.08%	1 378			Ongoing maniforma	***************************************
250 20,000 20,0	07/34/2018					-		320	%200	1 746			Ongoing monitoring	***************************************
1,201 1,202 1,203 1,204 1,203 1,204 1,20	1/8/2018	-			-		***************************************	298	0.17%	1561			Onnoing monitoring	***************************************
14.0 0.07% 2550 1.532	08/02/2018	***************************************				***************************************	***************************************	451	0.03%	2.405			Ongoing monitoring	***************************************
2.43 0.04% 7.34 1.542 1.544	08/03/2018	***************************************	***************************************				***************************************	110	0.07%	565			Onagina monitorina	
138 0.15% 3.724 10.40 follow regard Again broom 0.020/mm monitoring 0.020/	08/04/2018							243	0.04%	1.302	***************************************	***************************************	Ongoing monitoring	
289 0.06% 3.57	08/05/2018							138	0.19%	724	10-day follow report		Ongoing monitoring	
289 0.00% 1.587 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	08/06/2018					***************************************		689	%80'0	3.572	Mortality Event	Algae bloom	Ongoing monitoring	
2006% 132016 Oxegot Brondering Oxegot Brondering Brondering Brondering Oxegot Brondering Brondering Brondering Brondering Oxegot Brondering Bronderi	08/07/2018	***************************************						269	0.07%	1,397			Ongoing monitoring	***************************************
17.2 17.2	08/08/2018							249	%90.0	1,309	***************************************		Ongoing monitoring	***************************************
2501 266 0.02% 23-6 267	08/09/2018	***************************************				***************************************		207	0.17%	1128			Ongoing monitoring	***************************************
150 150	08/10/2018							566	0.02%	2973	Mortality Event	Algae bloom	Ongoing monitoring	10,380kg in 5 c
100	08/11/2018							64	0.03%	346			Ongoing monitoring	***************************************
172019 1006% 11096 1006%	08/12/2018							67	0.06%	517			Ongoing monitoring	***************************************
179 0.05% 877	08/13/2019							206	0.05%	1098			Ongoing monitaring	
167 0.05% 870	08/14/2019							179	0.05%	947			Ongoing monitoring	
152 1094 1095 1	08/15/2019							167	0.06%	870			Ongoing monitaring	
152 0.05% 810	08/16/2019							202	0.23%	1094			Ongoing monitoring	-
152 0.05% 810	08/17/2019							771	0.05%	4123			Ongoing monitoring	-
154 0.05% 835 Summary report	08/18/2018					***************************************		152	0.05%	810			Ongoing monitoring	
Fish type Fish category Event type: Atlantic Production Mortality Event Chinook Smolts Mortality Event Coho Brood Mortality Event Sablefish Other-explain Non-tirt Outbreak Other-explain Toxic spili 10-day follow report Summary report Other - explain	08/19/2018							154	0.05%	835	Summary report		Ongoing manitoring	***************************************
Fish type Fish category Atlantic Production Chinook Smolts Coho Brood Sabefish Other-explain Other-explain Other-explain Other - explain	-									***************************************	***************************************			
Event type: Atlantic Production Chinook Smolts Coho Brood Sabiefish Other-explain										***************************************	***************************************	***************************************		
Fish table Fish category Event type:														
Chino Rood Brood Brood Brood Culter-explain Other-explain Other-explain Today follow report Summay report Summay report Other explain						Fish type	Fish category				Event type:	Probable cause:	Action taken:	***************************************
Caho Broad Non-inf. Outbreak Sablefish Other-explain Culte-explain Toxis spill Toxis spill 10-day follow report Summary report Other - explain						Chinook	Smolfs				Nichality Everil	Alnae bloom	None required Recoked	
Sablefish Other-explain Other-explain Other-explain Toxic spili 10-day follow report Summary report Other - explain						Caho	Brood				Infectious outbreak	Toxic spill	Ongoing correction	
Other explain Toxic spill 10-day follow report Summary report Other - explain						Sablefish	Other-explain	•			Non-inf. Outbreak	Poor smolt	Ongoing monitoring	
Toxic spill 10-day follow report Summary report Other - explain						Other-explain					Cull event	Excess crawding	Harvest	
10-day follow report Summary report Other - explain	Explain:										Toxic spill	Handling	Treatment	
											10-day follow report	Transport	Carcass removal	
											Summary report	Bathing	Coll	
Predation As yet unknown has a yet unknown has be unknown for the control of the					***************************************			***************************************			Other - explain	Bacterial	Other -explain	
As yet unknown to the state of	,			***************************************	***************************************	-	***************************************	***************************************	***************************************			Viral	7	
Office - explain Essainable Picheries												As yet unknown		
												Other -explain	suring Sustainable Pisheries	

2018 - Q3 - Mort Event & FHE Discrepancies / potential non compliance

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					0	äţ	
Follow up Comment	Informed DFO velectrarian letter sent	Informed DFO vetetinarian . Letter sent.	Late report indicated on Commpliance tracking	Informed DFO veterinarian. Since in the new quarter should have been reported as a new event.	informed DFO veterinarian. May not be an issue since the initial FHE in june was reported?	treatment was opportunistic sionce fish were in a well boat to be split to other pens on site and not due to AGD diagnosis and therefore not considered a FHE	Informed DFO veternarian.
Confirmed Unreported	\$9.	, kes	Yes	se/.	Yes	yes	yes
MAFF folders			mis reported	not reported	not reported	not reported	not reported
M by C sheet	u/,u	n/a	ı la	not submitted			n/a
Checked Compliance Tracking Sheet	not reported		mis reported	not reported	not reported	not reported	not reported
Comment	Mortality count, 2146; blomass; 11083 (classified as old, non performers and environmental) - the uneported event appear to be due to uplifis not working adequately due to the size of the fish and therefore on dive days ME threshold is reached. Environmental are fish that have noted along with low level harmful. 18-Jul-18 in addition to the July 18 event. there were three other unreported events discovered during this audit: - July 26, 2018 inumber: 978 blomass: 5159 - August 6 - 10 number: 771 blomass: 10379	Mortality count: 6788: biomass: 7514 - daily upliffs are inefficient, a 10 day 13-Jul-18 mort dive resulted in a 24 hours over threshold. All classified as olds and clean up post H202 treatment.	Mortality event reported as meeling the five day threhold of 10 forme from June 8 - 12. In fact a 24 hour mort event was met on June 9 ($4261~kg$) and again on June 11 ($4192~kg$)	Ongoing FHE not reported for MR treatment - FHE New reported in March and ongoing reports in April and May were submitted but not for the June/July treatment.	These were discovered during audits in Q12017. They have been entered to the compliance tracking sheet as unreported orgoing FHE, not sure if any follow up with MHC occurred.	This was discovered last quarter, should have been added to the compliance tracking sheet	Mortality count on August 22, 2018 was 943, biomass was 5654.8 kg, this 22-Aug-18 was a five debt, mortalities were collected by upfill for the previous 18 days. 22-Aug-18 Cacrasses were classified as primarily 'environmental', bredator', non performers'. This site is experiencing lower oxygen levels
Issue Date	18-101-18	13-Jul-18	June 8 - 12 , 2018	June 23 - July3, 2018	July/August 2017	01-Feb-18	22-Aug-18
enss	29-Aug Unreported ME	29-Aug Unreported ME	09-Jul Mis - reported ME	18-Jul Unreported FHE (ongoing)	01-Jul Unreported FHE (ongoing)	01-Jul Unreported FHE	17-Sep Unreported ME
Audit Date	29-Aug I	29-Aug	John	18-Jul	01-Jul	Jut-10	17-Sep
Site	Rant Point	Bedwell	Salten	Shelter Pass	Shelter Bay	Heath	Venture Point